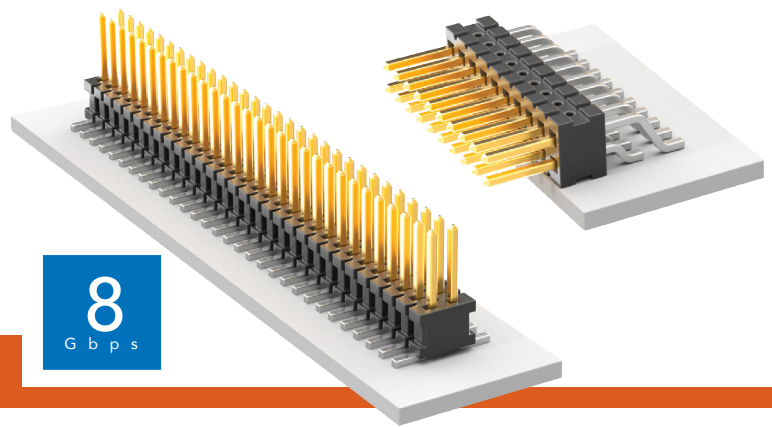


# SURFACE MOUNT MICRO HEADER

(1.27 mm) .050" PITCH • FTSH SERIES



## FTSH

**Board Mates:**

CLP, FLE

**Cable Mates:**

FFSD, FFTP

## SPECIFICATIONS

**Insulator Material:**

Black Liquid Crystal Polymer

**Terminal Material:**

Phosphor Bronze

**Plating:**

Sn or Au over

50  $\mu$ " (1.27  $\mu$ m) Ni

**Operating Temp Range:**

-55 °C to +125 °C

**Current Rating (FTSH/CLP):**

3.4 A per pin

(2 pins powered)

**Current Rating (FTSH/FLE):**

2.9 A per pin

(2 pins powered)

**Voltage Rating:**

280 VAC/396 VDC

## PROCESSING

**Lead-Free Solderable:**

Yes

**SMT Lead Coplanarity:**

-MT & -DV Tail Option:

(0.10 mm) .004" max (02-25)

-MT & -DH Tail Option:

(0.15 mm) .006" max (26-50)\*

\*(.004" stencil solution

may be available; contact

ipg@samtec.com)

## ALSO AVAILABLE

Contact Samtec

Molded Pick & Place pads

Latches

Other platings



## Notes:

Severe Environment  
Testing qualified; aligns  
with MIL-DTL-55302.  
Visit [samtec.com/set](http://samtec.com/set)

Some sizes, styles and  
options are non-standard,  
non-returnable.

See SFM/TFM for positive  
alignment feature.

| FTSH | 1 | NO. PINS PER ROW | LEAD STYLE | PLATING OPTION | TAIL OPTION | OPTION | FLEX SHROUD OPTIONS | OTHER OPTIONS |
|------|---|------------------|------------|----------------|-------------|--------|---------------------|---------------|
|------|---|------------------|------------|----------------|-------------|--------|---------------------|---------------|

02  
thru  
50

**-01**  
= (3.05 mm)  
.120" Post  
(Mates with  
FFSD)

**-02**  
= (1.91 mm)  
.075" Post  
(Mates with  
FLE)

**-03**  
= (1.65 mm)  
.065" Post  
(Mates with  
CLP-D)

**-04**  
= (3.81 mm)  
.150" Post  
(Mates with  
CLP-DH)

**-05**  
= (4.32 mm)  
.170" Post  
(Mates with  
CLP-BE)

**-F**  
= Gold flash  
on post,  
Matte Tin  
on tail

**-L**  
= 10  $\mu$ "  
(0.25  $\mu$ m)  
Gold  
on post,  
Matte Tin  
on tail

**-DV**  
= Double  
Vertical

**-DH**  
= Double  
Horizontal  
(Styles  
-01, -02 &  
-04 only)

**-MT**  
= Mixed  
Technology  
(Styles  
-01, -02 &  
-04 only)

Leave Blank  
for -DH &  
-MT

**"XXX"**  
= Polarized  
Position  
(Specify  
position  
of  
omitted  
pin)  
(Not  
available  
with -EX  
options)

(Style -02 & -03  
only, -DH & -MT  
not available)  
9 pins/row  
minimum  
(Other positions  
available. Call  
Samtec.)

**-ES**  
= End Shroud

**-EC**  
= End Shroud  
with Locking Clip  
(Manual  
placement  
required)

**-EP**  
= End Shroud  
with Guide Post

**-EL**  
= End Shroud with  
Board Lock  
(Boards are  
positively locked  
and cannot be  
unmated)

**-EJ**  
= Ejector Shroud  
(Style -01 only)  
-DH & -MT  
not available  
10 pins/row  
minimum  
25 pins/row  
maximum

**-K**  
= Keying  
Shroud for  
mating  
with FFSD  
(Style -01 only,  
05 thru 25  
pins/row only.  
13, 17, 20 &  
25 only with  
-EJ option)  
(-DV only)

**-A**  
= Alignment  
Pin  
(-DV 3 positions  
minimum)  
(-DH 5 positions  
minimum)  
(Metal or  
plastic at  
Samtec  
discretion)

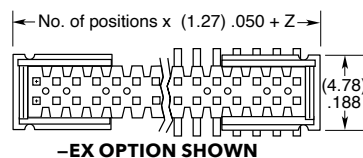
**-C**  
= (5.00 mm)  
.197" DIA  
Polyimide film  
Pick & Place Pad  
(-DH only)

**-P**  
= Pick &  
Place Pad  
(-DV 4 positions  
minimum)  
(-DH & -MT  
not available)

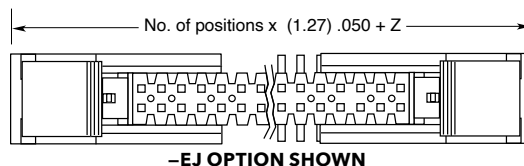
**-TR**  
= Tape & Reel  
(Flex Shroud  
options  
not available  
except -ES  
& -EJ)

**-FR**  
= Full Reel  
Tape & Reel  
(must order  
maximum  
quantity  
per reel;  
contact  
Samtec for  
quantity breaks)

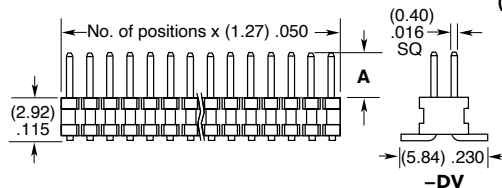
| OPTION | Z            |
|--------|--------------|
| -ES    | (2.57) .101  |
| -EJ    | (15.77) .621 |
| -EC    | (3.33) .131  |
| -EP    | (5.87) .231  |
| -EL    | (6.53) .257  |



-EX OPTION SHOWN

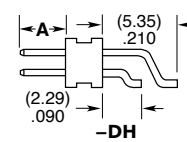


-EJ OPTION SHOWN



-DV

(Styles -01, -02 & -04 only)



-DH  
(Styles -01, -02, -04 only)

| LEAD STYLE | A           |
|------------|-------------|
| -01        | (3.05) .120 |
| -02        | (1.91) .075 |
| -03        | (1.65) .065 |
| -04        | (3.81) .150 |
| -05        | (4.32) .170 |

